

Sheet 1 of 11

FORM P10-1449
(Modified)U.S. Department of Commerce
Patent and Trademark Office

Attorney Docket No. NICHIA-00800

Serial No. 09 500288

Applicant: Shuji Nakamura, *et al*

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Filing Date: February 8, 2000

Group Art Unit.

(37 CFR § 1.98(b))

U.S. PATENT DOCUMENTS

Examiner Initials		Serial Patent Number	Issue Date	Applicant Patentee	Class	Subclass	Filing Date
6/26	AA	3566215 ✓	2 23 71	Heywang	317	235	7 31 68
	AB	3593191 ✓	7 13 71	Henker	331	94 5	9 24 69
	AC	3655439 ✓	4 11 72	Setter	117	212	6 16 69
	AD	3658585 ✓	4 25 72	Folkmann, <i>et al</i>	117	201	2 26 70
	AE	3704427 ✓	11 28 72	Heywang	331	94 5	6 3 64
	AF	3705567 ✓	12 12 72	Ernsts	118	49	1 22 71
	AG	3737737 ✓	6 5 73	Heywang, <i>et al</i>	317	234.R	10/6/71
	AH	3747559 ✓	7 24 73	Dietze	118	48	5 15 72
	AI	3793984 ✓	2 26 74	Kasper, <i>et al</i>	118	48	11 13 72
	AJ	3819974 ✓	6 25 74	Stevenson, <i>et al</i>	313	499	3/12/73
	AK	3853974 ✓	12 10 74	Reuschel, <i>et al</i>	264	81	2/21/73
	AL	3941647 ✓	3 2 76	Druminski	156	612	3 8 73
	AM	3948693 ✓	4 6 76	Weyrich, <i>et al</i>	148	171	7 23 74
	AN	3963537 ✓	6 15 76	Kniepkamp, <i>et al</i>	148	175	8 27 74
	AO	3965347 ✓	6 22 76	Heywang	250	211.J	11/12/74
	AP	3974561 ✓	8 17 76	Schnoeller	29	611	5/30/74
	AQ	4020791 ✓	5 3 77	Reuschel, <i>et al</i>	118	49 1	11/19/74
	AR	4062035 ✓	12 6 77	Winstel	357	17	1/28/77
	AS	4098223 ✓	7 4 78	Ertl, <i>et al</i>	118	48	11/4/76
	AT	4102298 ✓	7 25 78	Dietze, <i>et al</i>	118	5	6 10 76
	AU	4108539 ✓	8 22 78	Gort, <i>et al</i>	350	201	11/18/76
	AV	4113381 ✓	9 12 78	Epstein	356	5	11-18-76
	AW	4133702 ✓	1 9 79	Krimmel	148	1 5	8 11 77
	AX	4140546 ✓	2 20 79	Krimmel	148	1 5	8 17 77
	AY	4154625 ✓	5 15 79	Golovchenko <i>et al</i>	148	1 5	11-16-77
	AZ	4170018 ✓	10 2 79	Runge	357	17	3/30/78
	BA	4261770 ✓	4 14 81	Splittgerber, <i>et al</i>	148	171	3 13 80
	BB	4351695 ✓	9 28 82	Hieber, <i>et al</i>	156	603	1 2 81
	BC	4404265 ✓	9 13 83	Manasevit	428	689	4 7 78
	BD	4410993 ✓	10 18 83	Zschauer	372	44	4 17 81
	BE	4423349 ✓	12 27 83	Nakajima, <i>et al</i>	313	487	7 1 81
	BF	4505765 ✓	3 19 85	Trommer	148	171	6 17 83
	BG	4521448 ✓	6 4 85	Sasaki	427	88	3 3 83

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42	BH	4531142	✓	7/23/85	Weyrich, <i>et al</i>	357	17	2/16/83
	BI	4568206	✓	2/4/86	Imazaike	384	530	12/3/84
	BJ	4596998	✓	6/24/86	Krimmel	357	17	7/19/84
	BK	4599244	✓	7/8/86	Falckenberg, <i>et al</i>	427	74	9/12/84
	BL	4599245	✓	7/8/86	Falckenberg, <i>et al</i>	427	74	9/11/84
	BM	4604637	✓	8/5/86	Ruhle, <i>et al</i>	357	17	3/1/83
	BN	4615766	✓	10/7/86	Jackson, <i>et al</i>	156	662	2/27/85
	BO	4656636	✗	4/7/87	Amann, <i>et al</i>	372	50	12/23/85
	BP	4661175	✓	4/28/87	Kuphal, <i>et al</i>	148	171	6/6/85
	BQ	4670093	✓	6/2/87	Maerz, <i>et al</i>	156	649	4/21/86
	BR	4682337	✓	7/21/87	Amann	372	44	9/13/85
	BS	4683574	✓	7/28/87	Heinen	372	44	9/12/85
	BT	4722088	✓	1/26/88	Wolf	372	44	9/6/85
	BU	4740259	✓	4/26/88	Heinen	156	234	9/15/86
	BV	4742525	✓	5/3/88	Heinen, <i>et al</i>	372	44	9/6/85
	BW	4744088	✓	5/10/88	Heinen, <i>et al</i>	372	50	3/13/87
	BX	4746195	✓	5/24/88	Auracher, <i>et al</i>	350	320	3/13/85
	BY	4763979	✓	8/16/88	Heywang	350	96.20	9/23/86
	BZ	4768199	✓	8/30/88	Heinen, <i>et al</i>	372	36	9/5/86
	CA	4792200	✓	12/20/88	Amann, <i>et al</i>	350	96.12	4/1/87
	CB	4792959	✓	12/20/88	Mueller, <i>et al</i>	372	46	1/30/87
	CC	4818722	✓	4/4/89	Heinen	437	129	5/26/87
	CD	4829188	✓	5/9/89	Shinomiyu, <i>et al</i>	250	483.1	10/1/87
	CE	4835575	✓	5/30/89	Plhal	357	30	2/3/88
	CF	4841344	✓	6/20/89	Heinen	357	17	12/7/87
	CG	4845723	✓	7/4/89	Heinen, <i>et al</i>	372	38	2/22/88
	CH	4855118	✓	8/8/89	Ichinose, <i>et al</i>	423	301	4/12/88
	CI	4859903	✓	8/22/89	Minematu, <i>et al</i>	313	487	3/2/88
	CJ	4864369	✓	9/5/89	Snyder, <i>et al</i>	357	17	7/5/88
	CK	4869568	✗	9/26/89	Schimpe	350	96.12	9/29/88
	CL	4890033	✓	12/26/89	Ichinomiya, <i>et al</i>	313	487	6/28/88
	CM	4904617	✓	2/27/90	Muschke	437	129	8/25/88
	CN	4904618	✓	2/27/90	Neunark	437	150	8/22/88
	CO	4907044	✓	3/6/90	Schellhorn, <i>et al</i>	357	17	7/14/89
	CP	4907534	✓	3/13/90	Huang, <i>et al</i>	118	725	12/9/88
	CQ	4911102	✓	3/27/90	Manabe, <i>et al</i>	118	719	1/26/88

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(37 CFR § 1.98(b))

WS	CP	4918497	✓	4/17/90	Edmond	357	17	12/14/88
	CS	4929907	✓	5/29/90	Berkel	330	252	3/8/89
	CT	4944837	✓	7/31/90	Nishikawa, <i>et al.</i>	156	646	2/28/89
	CU	4945394	✓	7/31/90	Palmour, <i>et al.</i>	357	34	10/26/87
	CV	4946547	✓	8/7/90	Palmour, <i>et al.</i>	156	643	10/13/89
	CW	4947218	✓	8/7/90	Edmond, <i>et al.</i>	357	13	11/3/87
	CX	4959174	✓	9/25/90	Nakajima, <i>et al.</i>	252	301.6R	3/16/89
	CY	4960728	✓	10/2/90	Schaaake, <i>et al.</i>	437	82	10/11/88
	CZ	4966862	✓	10/30/90	Edmond	437	100	8/28/89
	DA	4971739	✓	11/20/90	Ichinose, <i>et al.</i>	264	61	4/12/89
	DB	4977567	✓	12/11/90	Hanke	372	45	10/11/89
	DC	4982314	✓	1/1/91	Miki	363	16	12/4/89
	DD	4985742	✓	1/15/91	Pankove	357	34	7/7/89
	DE	4987576	✓	1/22/91	Heinen	372	46	11/3/89
	DF	4990466	✓	2/5/91	Shieh, <i>et al.</i>	437	129	11/1/88
	DG	4990990	✓	2/5/91	Albrecht, <i>et al.</i>	357	30	3/23/88
	DH	5005057	✓	4/2/91	Izumiya, <i>et al.</i>	357	17	4/13/90
	DI	5006908	✓	4/9/91	Matsuoka, <i>et al.</i>	357	17	2/12/90
	DJ	5008735	✓	4/16/91	Edmond, <i>et al.</i>	357	74	12/7/89
	DK	5008789	✓	4/16/91	Arai, <i>et al.</i>	362	255	2/14/90
	DL	5019746	✓	5/28/91	Merg	313	512	12/4/89
	DM	5023686	✓	6/11/91	Helmut, <i>et al.</i>	357	30	6/15/90
	DN	5027168	✓	6/25/91	Edmond	357	17	8/28/89
	DO	5034956	✓	7/23/91	Gessner, <i>et al.</i>	372	45	11/2/89
	DP	5041334	✓	8/20/91	Nakajima, <i>et al.</i>	428	407	12/19/89
	DQ	5042043	✓	8/20/91	Hatano, <i>et al.</i>	372	45	4/13/90
	DR	5045896	✓	9/3/91	Ash, <i>et al.</i>	357	17	3/21/89
	DS	5049779	✓	9/17/91	Itsuki, <i>et al.</i>	313	486	4/28/89
	DT	5061972	✓	10/29/91	Edmond	357	13	9/13/90
	DU	5065207	✓	11/12/91	Heinen	357	30	2/5/91
	DV	5077145	✓	12/31/91	Shinomiya, <i>et al.</i>	428	691	12/21/90
	EW	5093576	✓	3/3/92	Edmond, <i>et al.</i>	250	370.01	3/15/91
	EX	5119540	✓	6/9/92	Kong, <i>et al.</i>	29	25.01	7/24/90
	EY	5120619	✓	6/9/92	Nakajima, <i>et al.</i>	428	690	11/7/90
	EZ	5122845	✓	6/16/92	Manabe, <i>et al.</i>	357	17	2/26/90
	EA	5128955	✓	7/7/92	Danielmeyer	372	94	8/18/88

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FORM PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (37 CFR § 1.98(b))		Attorney Docket No. NICHIA-00800	Serial No. 09 500288
		Applicant: Shuji Nakamura, <i>et al.</i>	
		Filing Date: February 8, 2000	Group Art Unit

	EB	5146465	✓	9 8 92	Khan, <i>et al.</i>	372	45	2 1 91
<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> MA </div>	EC	5155062	✓	10 13 92	Coleman	437	100	12 20 90
	ED	5171370	✓	12 15 92	Reithmaier, <i>et al.</i>	118	726	4 18 90
	EE	5182670	✓	1 26 93	Khan, <i>et al.</i>	359	359	8 30 91
	EF	5184247	✓	2 2 93	Schimpe	359	344	7 17 90
	EG	5185207	✓	2 9 93	Furuoka, <i>et al.</i>	428	404	12 27 91
	EH	5200022	✓	4 6 93	Kong, <i>et al.</i>	156	612	10 3 90
	EI	5202777	✓	4 13 93	Sluzky, <i>et al.</i>	359	50	4/1/92
	EJ	5205905	✓	4 27 93	Kotaki, <i>et al.</i>	156	662	5/30 91
	EK	5208878	✓	5 4 93	Thulke	385	14	10/2/91
	EL	5210051	✓	5 11 93	Carter, Jr.	437	107	6/5/91
	EM	5218216	✓	6 8 93	Manabe, <i>et al.</i>	257	103	12/20/91
	EN	5229626	✗	7 20 93	Ebitani, <i>et al.</i>	257	84	3/27 92
	EO	5233204	✓	8 3 93	Fletcher, <i>et al.</i>	257	13	1/10 92
	EP	5239188	✓	8 24 93	Takeuchi, <i>et al.</i>	257	76	11/4/92
	EQ	5247533	✓	9 21 93	Okazaki, <i>et al.</i>	372	45	12/26/91
	ER	5250366	✓	10 5 93	Nakajima, <i>et al.</i>	428	690	5/8/92
	ES	5252499	✓	10 12 93	Rothschild	437	22	8/15/88
	ET	5252839	✓	10 12 93	Fouquet	257	13	6/10/92
	EU	5260960	✓	11/9 93	Amann, <i>et al.</i>	372	46	4/23/92
	EV	5264713	✓	11/23/93	Palmour	257	77	6/14/91
EW	5266503	✓	11 30 93	Wang, <i>et al.</i>	437	24	10/2 91	
EX	5270554	✓	12 14 93	Palmour	257	77	6 14 91	
EY	5272108	✓	12 21 93	Kozawa	437	127	2/26 92	
EZ	5278433	✓	1/11 94	Manabe, <i>et al.</i>	257	103	8/7/92	
FA	5281830	✓	1/25 94	Kotaki, <i>et al.</i>	257	86	10/24/91	
FB	5290393	✓	3 1/94	Nakamura	156	613	1/28 92	
FC	5306662	✓	4 26 94	Nakamura, <i>et al.</i>	437	107	11/2 92	
FD	5312560	✓	5/17 94	Somatomo, <i>et al.</i>	252	301.4 S	3/18 93	
FE	5323022	✓	6 21 94	Glass, <i>et al.</i>	257	77	9 10 92	
FF	5330791	✓	7 19 94	Aihara, <i>et al.</i>	427	215	4 16 93	
FG	5334277	✓	8 2 94	Nakamura	117	102	10 22 91	
FH	5336080	✓	8 9 94	Sumitomo, <i>et al.</i>	428	407	12 17 92	
FI	5338944	✓	8 16 94	Edmond, <i>et al.</i>	257	76	9 22 93	
FJ	5341390	✓	8 23 94	Yamada, <i>et al.</i>	372	45	4 15 93	
FK	5343316	✓	8 30 94	Morimoto, <i>et al.</i>	359	50	6 29 93	

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W/L	FL	5344791	✓	9 6 94	Huang	437	126	8 14 92
	FM	5359345	✓	10 25 94	Hunter	345	102	8 5 92
	FN	5363390	✓	11 8 94	Yang, et al.	372	22	11 22 93
	FO	5366834	✓	11 22 94	Yoneda, et al.	430	23	5 5 93
	FP	5369289	✓	11 29 94	Tamaki, et al.	257	99	10 30 92
	FQ	5376303	✓	12 27 94	Royce, et al.	252	301.4 R	1 10 94
	FR	5376580	✓	12 27 94	Kish, et al.	437	127	3 19 93
	FS	5381103	✓	1 10 95	Edmond, et al.	324	753	10 13 92
	FT	5382822	✓	1 17 95	Stein	257	410	9 27 93
	FU	5389571	✓	2 14 95	Takeuchi, et al.	437	133	4 16 93
	FV	5390210	✓	2 14 95	Fouquet, et al.	372	92	11 22 93
	FW	5393993	✓	2 28 95	Edmond, et al.	257	77	12 13 93
	FX	5394005	✓	2 28 95	Brown, et al.	257	461	2 18 94
	FY	5403774	✓	4 4 95	Shieh, et al.	437	129	11 6 92
	FZ	5404282	✓	4 4 95	Klinke, et al.	362	249	8 19 94
	GA	5408120	✓	4 18 95	Manabe, et al.	257	431	1 22 93
	GB	5409859	✓	4 25 95	Glass, et al.	437	187	4 22 94
	GC	5416342	✓	5 16 95	Edmond, et al.	257	76	6 23 93
	GD	5417886	✓	5 23 95	Tateiwa, et al.	252	301.4 R	9 20 93
	GE	5433169	✓	7 18 95	Nakamura	117	102	4 6 94
	GF	5433533	✓	7 18 95	Imazaike	384	488	12 20 93
	GG	5433888	✓	7 18 95	Okada, et al.	252	301.4 R	9 20 93
	GH	5435938	✓	7 25 95	Bando, et al.	252	301.4 S	3 10 94
	GI	5438198	✓	8 1 95	Ebitani, et al.	250	330	5 3 94
	GJ	5459107	✓	10 17 95	Palmour	437	238	6 5 92
	GK	5465249	✓	11 7 95	Cooper, Jr. et al.	365	149	11 26 91
	GL	5467291	✓	11 14 95	Fan, et al.	364	578	12 5 91
	GM	5468678	✓	11 21 95	Nakamura, et al.	437	107	1 12 94
	GN	5475241	✓	12 12 95	Harrah, et al.	257	99	10 27 93
	GO	5497012	✓	3 5 96	Moll	257	183	6 15 94
	GP	5502316	✓	3 26 96	Kish, et al.	257	94	10 12 95
	GQ	5506421	✓	4 9 96	Palmour	257	77	11 24 92
	GR	5511084	✓	4 23 96	Amann	372	20	1 17 95
	GS	5514627	✓	5 7 96	Lowery, et al.	437	209	1 24 94
	GT	5523018	✓	6 4 96	Okada, et al.	252	301.4 P	3 23 95
	GU	5523589	✓	6 4 96	Edmond, et al.	257	77	9 20 94

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WS	GW	5539217	✓	7/23/96	Edmond, <i>et al.</i>	257	77	8/9/93
	GW	5563422	✓	10/8/96	Nakamura, <i>et al.</i>	257	13	4/28/94
	GX	5578839	✓	11/26/96	Nakamura, <i>et al.</i>	257	96	11/17/93
	GY	5583879	✓	12/10/96	Yamazaki, <i>et al.</i>	372	45	4/19/95
	GC	5585648	✓	12/17/96	Tischler	257	77	2/3/95
	HA	5587593	✓	12/24/96	Konde, <i>et al.</i>	257	94	4/19/95
	HB	5592501	✓	1/7/97	Edmond, <i>et al.</i>	372	45	9/20/94
	HC	5592578	✓	1/7/97	Ruh	385	31	11/1/95
	HD	5596595	✓	1/21/97	Tan, <i>et al.</i>	372	96	6/8/95
	HE	5604135	✓	2/18/97	Edmond, <i>et al.</i>	437	22	8/12/94
	HF	5604763	✓	2/18/97	Kato, <i>et al.</i>	372	45	4/19/95
	HG	5612260	✓	3/18/97	Palmour	437	238	12/9/94
	HH	5614736	✓	3/25/97	Neumann, <i>et al.</i>	257	102	9/25/95
	HI	5616177	✓	4/1/97	Yamada	117	102	2/22/95
	HJ	5620557	✓	4/15/97	Manabe, <i>et al.</i>	438	507	6/26/95
	HK	5621749	✓	4/15/97	Baney	372	69	9/6/95
	HL	5625202	✓	4/29/97	Chai	257	94	6/8/95
	HM	5627244	✓	5/6/97	Sato	526	92	4/26/95
	HN	5629531	✓	5/13/97	Palmour	257	77	12/9/94
	HO	5631190	✓	5/20/97	Negley	438	33	10/7/94
	HP	5635146	✓	6/3/97	Singh, <i>et al.</i>	423	65	11/30/95
	HQ	5642375	✓	6/24/97	King, <i>et al.</i>	372	97	10/26/95
	HR	5650641	✓	7/22/97	Sassa, <i>et al.</i>	257	88	8/31/95
	HS	5652434	✓	7/29/97	Nakamura, <i>et al.</i>	257	13	6/17/96
	HT	5652438	✓	7/29/97	Sassa, <i>et al.</i>	257	94	7/19/95
	HU	5656832	✓	8/12/97	Ohba, <i>et al.</i>	257	190	3/8/95
	HV	5659568	✓	8/19/97	Wang, <i>et al.</i>	372	96	5/23/95
	HW	5661074	✓	8/26/97	Tischler	438	32	5/24/95
	HX	5661316	✓	8/26/97	Kish, Jr., <i>et al.</i>	257	190	9/20/96
	HY	5661742	✓	8/26/97	Huang, <i>et al.</i>	372	46	5/22/96
	HE	5670798	✓	9/23/97	Schetzina	257	96	3/29/95
	IA	5679153	✓	10/21/97	Dmitriev, <i>et al.</i>	117	106	11/30/94
	IB	5684623	✓	11/4/97	King, <i>et al.</i>	359	346	11/21/96
	IC	5686737	✓	11/11/97	Allen	257	77	9/16/94
	ID	5700713	✓	12/23/97	Yamazaki, <i>et al.</i>	437	129	3/20/95
	IE	5707139	✓	1/13/98	Hartz	362	231	11/1/95


Examiner:

Date Considered

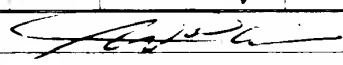
6/21/01

EXAMINER

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Sheet 7 of 11				U.S. Department of Commerce Patent and Trademark Office		Attorney Docket No. NICHIA-00800		Serial No. 09 500288	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						Applicant: Shuji Nakamura, <i>et al</i>			
(37 CFR § 1.98(b))						Filing Date: February 8, 2000		Group Art Unit	

WSL 	IF	5718760	✓	2/17/98	Carter, <i>et al</i>	117	84	2/5/96
	IG	5719409	✓	2/17/98	Singh, <i>et al</i>	257	77	6/6/96
	IH	5724062	✓	3/3/98	Hunter	345	102	9/21/94
	II	5724373	✓	3/3/98	Chang	372	20	11/15/96
	IJ	5724376	✓	3/3/98	Kish, Jr., <i>et al</i>	372	96	11/30/95
	IK	5727014	✓	3/10/98	Wang, <i>et al</i>	372	96	10/31/95
	IL	5729029	✓	3/17/98	Rudaz	257	13	9/6/96
	IM	5729567	✓	3/17/98	Nakagawa	372	99	4/25/96
	IN	5733796	✓	3/31/98	Manabe, <i>et al</i>	437	127	11/9/95
	IO	5734182	✓	3/31/98	Nakamura, <i>et al</i>	257	96	6/10/96
	IP	5739552	✓	4/14/98	Kimura, <i>et al</i>	257	89	10/24/95
	IQ	5739554	✓	4/14/98	Edmond, <i>et al</i>	257	103	5/8/95
	IR	5741431	✓	4/21/98	Shih	216	65	5/15/97
	IS	5741724	✓	4/21/98	Ramdani, <i>et al</i>	437	128	12/27/96
	IT	5742133	✓	4/21/98	Wilhelm, <i>et al</i>	315	291	9/9/96
	IU	5747832	✓	5/5/98	Nakamura, <i>et al</i>	257	103	6/10/96
	IV	5753939	✓	5/19/98	Sassa, <i>et al</i>	257	94	3/7/97
	IW	5758951	✓	6/2/98	Haitz	362	259	6/27/97
	IX	5761229	✓	6/2/98	Baldwin, <i>et al</i>	372	31	1/25/96
	IY	5767581	✓	6/16/98	Nakamura, <i>et al</i>	257	749	6/17/96
	IZ	5771254	✓	6/23/98	Baldwin, <i>et al</i>	372	31	6/3/96
	JA	5776837	✓	7/7/98	Palmour	438	767	11/19/96
	JB	5777350	✓	7/7/98	Nakamura, <i>et al</i>	257	96	11/30/95
	JC	5777433	✓	7/7/98	Lester, <i>et al</i>	313	512	7/11/96
	JD	5779924	✓	7/14/98	Krames, <i>et al</i>	216	24	3/22/96
	JE	5780120	✓	7/14/98	Belouet, <i>et al</i>	427	554	12/18/96
	JF	5785404	✓	7/28/98	Wiese	362	32	6/29/95
	JG	5793054	✓	8/11/98	Nido	257	18	6/13/96
	JH	5793062	✓	8/11/98	Kish, Jr., <i>et al</i>	257	98	10/24/97
	JI	5805624	✓	9/8/98	Yang, <i>et al</i>	372	45	7/30/96
JJ	5808323	✓	9/15/98	Spaeth, <i>et al</i>	257	88	3/29/96	
JF	5808592	✓	9/15/98	Mizutani, <i>et al</i>	345	83	4/21/95	
JK	5809050	✓	9/15/98	Baldwin, <i>et al</i>	372	43	1/25/96	
JL	5811319	✓	9/22/98	Koike, <i>et al</i>	438	46	3/26/96	
JM	5811931	✓	9/22/98	Mueller-Mach, <i>et al</i>	313	512	3/4/96	
JN	5812105	✓	9/22/98	Van De Ven	345	83	6/10/96	

Examiner: 	Date Considered: <u>6/21/01</u>
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Attorney Docket No. NICHIA-00800

Serial No. 09 500288

Applicant: Shuji Nakamura, *et al*

Filing Date: February 8, 2000

Group Art Unit

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

W3✓	JP	5812570	✓	9/22/98	Spaeth	372	36	9/30/96
	JP	5814870	✓	9/29/98	Spaeth	257	433	1/6/97
	JP	5818861	✓	10/6/98	Tan, <i>et al</i>	372	46	7/19/96
	JP	5828684	✓	10/27/98	Van De Walle	372	45	12/29/95
	JP	5831288	✓	11/3/98	Singh, <i>et al</i>	257	77	9/29/97
	JP	5835514	✓	11/10/98	Yuen, <i>et al</i>	372	36	1/25/96
	JP	5835522	✓	11/10/98	King, <i>et al</i>	372	97	11/19/96
	JP	5837561	✓	11/17/98	Kish, Jr., <i>et al</i>	438	47	5/23/97
	JP	5838706	✓	11/17/98	Edmond, <i>et al</i>	372	45	11/19/96
	JP	5838707	✓	11/17/98	Ramdani, <i>et al</i>	372	45	12/27/96
	JP	5838708	✓	11/17/98	Lin, <i>et al</i>	372	50	8/1/95
	EA	5846844	✓	12/8/98	Akasaki, <i>et al</i>	437	21	2/7/96
	EB	5847507	✓	12/8/98	Butterworth, <i>et al</i>	313	512	7/14/97
	EC	5850410	✓	12/15/98	Kuramata	372	43	3/18/96
	ED	5855924	✓	1/5/99	Lumbard	425	116	12/27/95
	EE	5858277	✓	1/12/99	Chau, <i>et al</i>	252	301.4 F	12/23/92
	EF	5859496	✓	1/12/99	Murazaki, <i>et al</i>	313	485	5/10/96
	EG	5861190	✓	1/19/99	Greene, <i>et al</i>	427	248.1	3/25/96
	EH	5861713	✓	1/19/99	Kondo, <i>et al</i>	313	495	6/26/97
	EI	5862167	✓	1/19/99	Sassa, <i>et al</i>	372	45	5/27/97
	EJ	5867516	✓	2/2/99	Corzine, <i>et al</i>	372	45	3/12/96
	EK	5868837	✓	2/9/99	Disalvo, <i>et al</i>	117	952	1/13/98
	EL	5877558	✓	3/2/99	Nakamura, <i>et al</i>	257	749	12/19/97
	EM	5879587	✓	3/9/99	Yale	252	301.45	9/24/97
	EN	5879588	✓	3/9/99	Yale	252	301.45	9/24/97
	EO	5880486	✓	3/9/99	Nakamura, <i>et al</i>	257	96	8/30/96
	EP	5889802	✓	3/30/99	Walker	372	31	3/27/97
	EQ	5889806	✓	3/30/99	Nagai, <i>et al</i>	372	45	8/8/97
	ER	5892784	✓	4/6/99	Tan, <i>et al</i>	372	43	10/27/94
	ES	5892787	✓	4/6/99	Tan, <i>et al</i>	372	96	4/22/96
	ET	5900650	✓	5/4/99	Nitta	257	94	7/2/97
	EU	5905276	✓	5/18/99	Manabe, <i>et al</i>	257	103	11/6/97
	EV	5907151	✓	5/25/99	Gramann, <i>et al</i>	250	214.1	5/27/97
	EW	5912477	✓	6/15/99	Negley	257	95	5/20/97
	EX	5917202	✓	6/29/99	Hantz, <i>et al</i>	257	98	12/21/95
	EY	5919422	✓	7/6/99	Yamanaka, <i>et al</i>	422	121	7/26/96

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Attorney Docket No. NICHIA-00800

Serial No. 09 500288

Applicant: Shuji Nakamura, *et al.*

Filing Date: February 8, 2000

Group Art Unit

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

W2	FD	5920766	✓	7 6 99	Floyd	438	35	1 7 98
	LA	5923053	✓	7 13 99	Jakowetz, <i>et al.</i>	257	95	9 30 96
	LB	5923118	✓	6 13 99	Jennato, <i>et al.</i>	313	485	3 7 97
	LC	5923690	✓	7 13 99	Kume, <i>et al.</i>	372	46	1 24 97
	LD	5923946	✓	7 13 99	Negley	438	4	4 17 97
	LE	5925898	✓	7 20 99	Spath	257	98	1 26 98
	LF	5927995	✓	7 27 99	Chen, <i>et al.</i>	438	517	4 9 97
	LG	5935705	✓	8 10 99	Chen, <i>et al.</i>	428	367	10 15 97
	LH	5936985	✓	8 10 99	Yamamoto, <i>et al.</i>	372	38	9 13 95
	LI	5945689	✓	8 31 99	Koike, <i>et al.</i>	257	88	3 18 96
	LJ	5953361	✓	9 14 99	Borchert, <i>et al.</i>	372	96	11 25 97
	LK	5953581	✓	9 14 99	Yamasaki, <i>et al.</i>	438	22	4 17 97
	LL	5958295	✓	9 28 99	Yale	252	301.4 S	9 24 97
	LM	5959316	✓	9 28 99	Lowery	257	98	9 1 98
	LN	5959401	✓	9 28 99	Asami, <i>et al.</i>	313	503	5 21 97
	LO	5961723	✓	10 5 99	Rothner, <i>et al.</i>	118	715	11 26 96
	LP	5964943	✓	10 12 99	Stein, <i>et al.</i>	117	88	6 25 97
	LQ	5966393	✓	10 12 99	Hide, <i>et al.</i>	372	23	2 4 97
	LR	5968265	✓	10 19 99	Stein, <i>et al.</i>	117	71	1 27 98
	LS	5969378	✓	10 19 99	Singh	257	77	7 10 97
	LT	5972781	✓	10 26 99	Wegleiter, <i>et al.</i>	438	460	9 30 97
	LU	5972801	✓	10 26 99	Lipkin, <i>et al.</i>	438	770	11 8 95
	LV	5973336	✓	10 26 99	Hanke, <i>et al.</i>	257	94	11 3 97
	LW	5980631	✓	11 9 99	Tews, <i>et al.</i>	117	89	12 17 97
	LX	5981945	✓	11 9 99	Spaeth, <i>et al.</i>	250	239	3 8 96
	LY	5981979	✓	11 9 99	Brunner	257	99	11 26 97
	LZ	5982970	✓	11 9 99	Schneider	385	125	9 19 97
	MA	5986317	✓	11 16 99	Wiese	257	433	9 29 95
	MB	5991160	✓	11 23 99	Lumbard	361	760	12 27 95
	MC	5994722	✓	11 30 99	Averbeck, <i>et al.</i>	257	89	6 30 98
	MD	5998925	✓	12 7 99	Shimizu, <i>et al.</i>	313	503	7 29 97
	ME	5999552	✓	12 7 99	Bogner, <i>et al.</i>	372	43	1 20 98

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

	MF	Document Number	Publication Date	Country Patent Office	Class	Subclass	Translation
WS	✓	CA1325582	✓	12 28 93	CA	H011	21 36B
11	✓	EP0356059A2	✓	2 28 90	EP	H011	21 38

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Attorney Docket No. NICHIA-00800

Serial No. 09 500288

Applicant: Shuji Nakamura, et al

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(37 CFR § 1.98(b))

Filing Date February 8, 2000

Group Art Unit

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	MC	EP0380340A2	✓	8/1/90	EP	HO11	29/91	
	MK	EP0380340A3	✓	8/1/90	EP	HO1L	29/91	
	ML	EP0637069A1	✓	2/1/95	EP	HO11	21/473	
	MM	EP0731512A2	✓	9/11/96	EP	HO1L	33/00	
	MN	EP0731512A3	✓	7/2/97	EP	HO1L	33/00	
	MO	EP0781619A1	✓	7/2/97	EP	B23H	7/02	
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	MS	EP0880181A3	✓	1/20/99	EP	HO1L	29/45	
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	MU	EP0936682A1	✓	8/18/99	EP	HO1L	33/00	
	MV	FR2613136	✓	9/30/88	FR	HO1L	33/00	
	MW	GB2322737A	✓	3/2/98	GB	HO1L	21/304	
	MX	GB2323210A	✓	9/16/98	GB	HO1L	33/00	
	MY	JP05152609	✓	6/18/93	JP	HO1L	33/00	
	MZ	JP0766192	✓	3/10/95	JP	HO1L	29/78	
	NA	JP09193137	✓	7/29/97	JP	B28D	5/044	
	NB	JP10233529	✓	2/14/97	JP	HO1L	33/00	
	NC	JP1064854	✓	7/18/96	JP	HO1L	21/301	
	ND	JP7176794	✓	7/14/95	JP	HO1L	33/00	
	NE	WO9702478A1	✓	1/23/97	PCT	G01M	19/00	
	NF	WO9702610A1	✓	1/23/97	PCT	HO1L	31/173	
	NG	WO9717730A1	✓	5/15/97	PCT	HO1L	29/24	
	NH	WO9727629A1	✓	7/31/97	PCT	HO1L	29/06	
	NI	WO9739485A1	✓	10/23/97	PCT	HO1L	2706	
	NJ	WO9750132A1	✓	12/31/97	PCT	HO1L	33/00	
	NK	WO9805078A1	✓	2/5/98	PCT	HO1L	33/00	
	NL	WO9812757A1	✓	3/26/98	PCT	HO1L	33/00	
	NM	WO9834304A1	✓	8/6/98	PCT	HO1S	3/025	
	NN	WO9837586A1	✓	8/27/98	PCT	HO1L	33/00	
	NO	WO9842879A1	✓	10/1/98	PCT	C21C	5/35	
	NP	WO9842897A1	✓	10/1/98	PCT	C30B	25/12	
	NQ	WO9847185A1	✓	10/22/98	PCT	HO1L	33/00	
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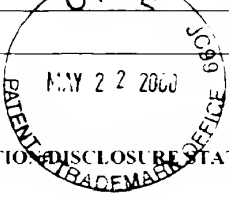
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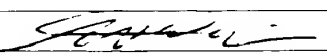
Attorney Docket No. NICHIA-00800
Serial No. 09 500288
Applicant: Shuji Nakamura, et al
Filing Date: February 8, 2000
Group Art Unit:

INFORMATION DISCLOSURE STATEMENT BY APPLICANT
(37 CFR § 1.98(b))

NS	WO9857378A1	✓	12 17 98	PCT	HO11	29 73	
NT	WO9910936A2	✓	3 4 99	PCT	HO11	33 00	
NW	WO9910936A3	✓	3 4 99	PCT	HO11	33 00	
NV	WO9918617A1	✓	4 15 99	PCT	HO1L	33 00	

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NW	✓	"Novel Metalorganic Chemical Vapor Deposition System for GaN Growth," S. Nakamura, American Institute of Physics, pp 2021-2023, 5 6 91.
NX	✓	"Out of the Blue," Forbes Global Magazine, pp.66-71, 9 6 99.
NY	✓	"Nitride PN Junctions Grown on SiC Substrates," V.A. Dmitriev, Inst. Phys. Conf., pp1019-1022, 1996.
NZ	✓	"AlGaIn PN Junctions," V.A. Dmitriev, American Inst. of Physics, pp.115-117, 5 11 95.
OA	✓	"Effects of Ar Ion Laser Irradiation on MOVPE of ZnSe using DMZn and DMSe as Reactants," A. Yoshikawa, Journal of Crystal Growth, pp.653-658, 1991.
OB	✓	"Electric Breakdown in GaN P-N Junctions," V.A. Dmitriev, American Inst. of Physics, pp.229-231, 1 8 96.
OC	✓	"High Quality GaN Grown Directly on SiC by Halide Vapour Phase Epitaxy," Y.V. Melnik, Inst. Phys. Conf., pp.863-866, 1996.
OD	✓	"Luminescence Conversion of Blue Light Emitting Diodes," P. Schlotter, Journal of Applied Physics, pp.12-13, 2 27 97.
OE	✓	"P-Type Conduction in Mg-Doped GaN Treated with Low-Energy Electron Beam Irradiation (LEEBI)," H. Amano, Japanese Journal of Applied Physics, pp.2112-2114, 12 89.
OF	✓	"Photoluminescence of Mg-Doped P-Type GaN and Electroluminescence of GaN P-N Junction Led," I. Akasaki, Journal of Luminescence Vol. 48-49, pp.666-670, 1991.
OG	✓	"Recent Progress in AlGaIn GaN Laser Structures on 6H-SiC," G.E. Bulman, SPIE Vol. 2693, pp.57-63, 1996.
OH	✓	"Recent Progress in GaN SiC LEDs and Photopumped Lasers," G.E. Bulman, pp.100-101, 19xx.
OI	✓	"Role of Growth Initiation for High-Brightness GaN-Based Light Emitting Diodes," R.S. Kern, 2nd. Intern. Symp. on Blue Laser and Light Emitting Diodes, Chiba, Japan, 9/29-10/2/98.
OJ	✓	"The State of SiC GaN-Based Blue LEDs," J. Edmond, Inst. Phys. Conf. Ser. No. 142, Chap. 6, pp.991-994, 1996.
OK	✓	"Wide Bandgap Group-III Nitride Optoelectronics," http://www.phy.duke.edu/research/photon/terahertz/gan/index.html .
OL	✓	"White LED Production at Osram," G. Bogner, Compound Semiconductor, pp 28-31, 5 99.

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Attorney Docket No.: NICHIA-00800

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT
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(37 CFR § 1.98(b))

Applicant: Shuji Nakamura *et al*

Filing Date: February 8, 000

Group Art Unit

FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS

		Document Number	Publication Date	Country Patent Office	Class	Subclass	Translation	
							Yes	No
✓	AA	04144294	5/18/92	JP	H01S	3/18	X	
	AB	09180998	7/11/97	JP	H01L	21/20	X	
	AC	09246651	9/19/97	JP	H01S	3/18	X	
	AD	09260772	10/3/97	JP	H01S	3/18	X	
	AE	09293935	11/11/97	JP	H01S	3/18	X	
	AF	10242565	9/11/98	JP	H01S	3/18	X	
	AG	10256645	9/25/98	JP	H01S	3/18	X	
	AH	10270792	10/9/98	JP	H01S	3/18	X	
	AI	10290027	10/27/98	JP	H01L	33/00	X	
	AM	10294529	11/4/98	JP	H01S	3/18	X	
	AN	10321962	12/4/98	JP	H01S	3/18	X	
	AN	11040893	2/12/99	JP	H01S	3/18	X	
	AO	2000-31599	1/28/00	JP	H01S	5/30		X
✓	AP	DE 196 48 955A1	5/28/97	DE	H01L	33/00		X
	AQ							

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

	AR	"InGaN/GaN/AlGaIn-based laser diodes with modulation-doped strained-layer superlattices grown on an epitaxially laterally overgrown GaN substrate," Shuji Nakamura et al., Applied Physics Letter, Vol. 72, No. 2, January 12, 1998.
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	AY	
	AZ	
	BA	
	BB	

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